Figure 1(a)

| HHV8PEP | |
|---------------------|---|
| RHESRHADPEP | |
| MURH68PEP | MYPTVKSMRVAHLTNLLTLLCLLCHTHLYVCOPTTLR |
| BOVINEH4PEP | YYKTILFFALIKVCSFNQTTTHSTTTSPSISSTTSSTTTSTSKPSNTTSTNSSLAASPQ |
| ATELINEH3PEP | Q |
| SAIMIRIPEP | Q |
| EOH2PEP | MGVGGGPRVVLCLWCVAALLCQGVAQEVVAETTTPFA |
| EQH5PEP | MVAWFGLWGFARLMATLALLCGRVALDESSATPSIPP |
| ALCELPEP | MAHTGSTVCAFLIFAVLKNVFCQTPTSSSEVEDVIPEAN- |
| EBVPEP | QTPEQ |
| | |
| HHV8PEP | TSSSPTPPGSSSKAPTKPGEEASGPKSVDFYQFRVCSAS-ITGELFRFNLEQTCPDTK |
| RHESRHADPEP | TTAKPTP-GPSTPTPPENPPR-AEAFKFRVCSAS-ATGELFRFNLEKTCPGTE |
| MURH68PEP | QPSDMTP-AQDAPTETPPPLSTNTNRGFEYFRVCGVA-ATGETFRFDLDKTCPSTQ |
| BOVINEH4PEP | NTSTSKPSTDNQGTSTPTIPTVTDDTAS-KNFYKYRVCSASSSSGELFRFDLDQTCPDTK |
| ATELINEH3PEP | TTPASSDENGKTPAIEKEYFK-YRVCSAS-TTGELFRFNLDRACPSTE |
| SAIMIRIPEP | TTPTTAVEKNKTQAIYQEYFK-YRVCSAS-TTGELFRFDLDRTCPSTE |
| EQH2PEP | THRPEVVAEENPANPFLPFRVCGASPTGGEIFRFPLEESCPNTE |
| EQH5PEP | THKPAVHHEDNTTNPFLLFRVCGASPTG-EIFRFPLEENCPNTE |
| ALCELPEP | TVSDNIIRQQRNNTAKGIHSDPSAFPFRVCSAS-NIGDIFRFQTSHSCPNTK |
| EBVPEP | |
| BDVFEF | PAPPATTVQPTATRQQTSFPFRVCELS-SHGDLFRFSSDIQCPSFG |
| HHV8PEP | DVV HOROTI I HVVVNITHDII TEVIDDVDVI A MOLITIANDOL GIRO A TIMANIA DO DANGE |
| RHESRHADPEP | DKY-HQEGILLVYKKNIVPHIFKVRRYRKIATSVTVYRGLTESAITNKYELPRPVPLY |
| MURH68PEP | DKT-HQEGILMVFKKNIVPHIFKVRRYRKVATSVTVYRGWTETAVTGKQEVIRPVPQY |
| BOVINEH4PEP | DKK-HVEGILLVYKINIVPYIFKIRRYRKIITQLTIWRGLTTSSVTGKFEMATQAHEW |
| ATELINEH3PEP | DKK-HVEGILLVLKKNIVPYIFKVRKYRKIATSVTVYRGWSQAAVTNRDDISRAIPYN |
| SAIMIRIPEP | DKV-HREGILLVYKKNIVPHIFKVRRYKKIATSVRIFNGWSREGVAITNKWELSRAVPKY |
| EQH2PEP | DKV-HKEGILLVYKKNIVPYIFKVRRYKKITTSVRIFNGWTREGVAITNKWELSRAVPKY |
| | DKD-HIEGIALIYKTNIVPYVFNVRKYRKIMTSTTIYKGWSEDAITNQHTRSYAVPLY |
| EQH5PEP ALCELPEP | DKE-HVEGILLIYKTNIVPYIFNVRKYRKLVTSTTIYKGWSQDAITNQYTSSFAMPLW |
| | DKE-HNEGILLIFKENIVPYVFKVRKYRKIVTTSTIYNGIYADAVTNQHVFSKSVPIY |
| EBVPEP | TRENHTEGLLMVFKDNIIPYSFKVRSYTKIVTNILIYNGWYADSVTNRHEEKFSVDSY |
| | |
| HHV8PEP | EISHMDSTYQCFSSMKVNVNGVENTFTDRDDVNTTVFLQPVEGLTDNIQRYFSQPVIYAE |
| RHESRHADPEP | EINHMDTTYQCFSSMRVNVNGIVNTYTDRDFTNQTVFLQPVEGLTDNIQRYFSQPVLYTT |
| MURH68PEP | EVGDFDSIYQCYNSATMVVNNVRQVYVDRDGVNKTVNIRPVDGLTGNIQRYFSQPTLYSE |
| BOVINEH4PEP | EISMIDRTYHCFSAMATVINGILNTYIDRDSENKSVPLQPVAGLTENINRYFSQPLIYAE |
| ATELINEH3PEP | EINLMDKNYQCHNCMQIEVNGLLNSYCDRDGNNKTVDLKPVDGLTGAITRYVSQPKIFAD |
| SAIMIRIPEP | EIDIMDKTYQCHNCMQIEVNGMLNSYYDRDGNNKTVDLKPVDGLTGAITRYISQPKVFAD |
| EQH2PEP | EVQMMDHYYQCFSAVQVNEGGHVNTYYDRDGWNETAFLKPADGLTSSITRYQSQPEVYAT |
| EQH5PEP | EARLVDYNYECYNGIQVTENGHLTTYVDRDGYNESVRLVPADGLTSSIRRYHSQPELYVT |
| ALCELPEP | ETRRMDTIYQCYNSLDVTVGGNLLVYTDNDGSNMTVDLQPVDGLSNSVRRYHSQPEIHAE |
| EBVPEP | ETDQMDTIYQCYNAVKMTKDGLTRVYVDRDGVNITVNLKPTGGLANGVRRYASQTELYDA |
| | |
| HHV8PEP | PGWFPGIYRVRTTVNCEIVDMIARSAEPYNYFVTSLGDTVEVSPFCYNESSCST-TPSNK |
| RHESRHADPEP | PGWFPGIYRVRTTVNCEIVDMIARSAEPYSYFVTALGDTVEVSPFCHNDSTCSV-AEKTE |
| MURH68PEP | PGWMPGFYRVRTTVNCEIVDMVARSMDPYNYIATALGDSLELSPFQTFDNTSQS-TAPKR |
| BOVINEH4PEP | PGWFPGIYRVRTTVNCEVVDMYARSVEPYTHFITALGDTIEISPFCHNNSQCTTGNSTSR |
| ATELINEH3PEP | AGWLWGTYKTRTTVNCEIVEMFARSADPYTYFVTALGDTVEVSPFCDAENSCPNAS |
| SAIMIRIPEP | PGWLWGTYRTRTTVNCEIVDMFARSADPYTYFVTALGDTVEVSPFCDVDNSCPNAT |
| EQH2PEP | PRNLLWSYTTRTTVNCEVTEMSARSMKPFEFFVTSVGDTIEMSPFLKENGTEPEKILK |
| EQH5PEP | PRNLLWSYTTRTTVNCEVIDMTARSHKPFEYFVTASGDSIETSPFYT-NASRR |
| ALCELPEP | PGWLLGGYRRRTTVNCEVTETDARAVPPFRYFITNIGDTIEMSPFWSKAWNETEFSGE |
| EBVPEP | PGWLIWTYRTRTTVNCLITDMMAKSNSPFDFFVTTTGQTVEMSPFYDGKNKETFHE |

EBVPEP

Figure 1(b)

HHVSPED NGLSVQVVLNHTVVTYSDRGTSPTPQNRIFVETGAYTLSWASESKTTAVCPLALWKTFPR RHESRHADPEP ${\tt NGLGARVLTNYTMVDFATR--APTTETRVFADSGEYTVSWKAEDPKSAVCALTLWKTFPR}$ MURH68PEP ADMRVREVKNYKFVDYNNRGTAPAGQSRTFLETPSATYSWKTATRQTATCDLVHWKTFPR BOVINEH4 PEP DATKVWIEENHQTVDYERRG-HPTKDKRIFLKDEEYTISWKAEDRERAICDFVIWKTFPR DVLSSQVDFNHTVVDYGNRATSQQHGKRIFAHTLDYSVSWEAINKTTSVCSMVFWKGFQR ATELINEH3 PEP SAIMIRIPEP DVLSVQIDLNHTVVDYGNRATSQQHKKRIFAHTLDYSVSWEAVNKSASVCSMVFWKSFOR EOH2 PEP RPHSIQLLKNYAVTKYGVGLGQADNATRFFAIFGDYSLSWKATTENSSYCDLILWKGFSN EQH5PEP VP--VQVLYNYSVTDYGVGLGSGENVTRFFATLNDFSISWKAATENSSYCPLVLWKGPPS ALCELPEP PDRTLTVAKDYRVVDYKFRGTQPQGHTRIFVDKEEYTLSWAQQFRNISYCRWAHWKSFDN EBVPEP RADSFHVRTNYKIVDYDNRGTNPQGERRAFLDKGTYTLSWKLENR-TAYCPLOHWOTFDS HHV8PEP SIQTTHEDSFHFVANEITATFTAP---LTPVANFTDTYSCLTSDINTTLNASKAKLASTH RHESRHADPEP AIQTTHEASYHFVANDVTATFTSP---LSEVANFTGTYSCLDEVIQKTLNDTIKKLSDTH MURH68PEP AIQTAHEHSYHFVANEVTATFNTP---LTEVENFTSTYSCVSDQINKTISEYIQKLNNSY BOVINEH4PEP AIQTIHNESFHFVANEVTASFLTSNQEETELRGNTEILNCMNSTINETLEETVKKFNKSH ATELINEH3 PEP AIQTEHDSTYHFIANEITAGFSTS -- KETLASFSSEYSCLMSDINSTLTDKIGRVNNTH SAIMIRIPEP AIQTEHDLTYHFIANEITAGFSTV---KEPLANFTSDYNCLMTHINTTLEDKIARVNNTH EOH2 PEP AIQTQHNSSLHFIANDITASFSTP--LEEEAN-FNETFKCIWNNTQEEIQKKLKEVEKTH EQH5PEP AIQTKHEKSYHFIADAVTASFTTP--LTDETSYFNTTYQCAWQDIEGEIQKRFDPVSKTH ALCELPEP AIKTEHGKSLHFVANDITASFYTP---NTQTREVLGKHVCLNNTIESELKSRLAKVNDTH EBVPEP TIATETGKSIHFVTDEGTSSFVTN---TTVGIELPDAFKCIEEQVNKTMHEKYEAVQDRY HHV8PEP VP-NGTVQYFHTTGGLYLVWQPMSAINLTHAQ-GDSGNPTSSPPPSASP------M RHESRHADPEP VT-NGSAQYYKTEGGLFLLWQPLTPLSLVDEMRGLNG---TTPAP---P-----A MURH68PEP VA-SGKTQYFKTDGNLYLIWQPLEHPEIEDID--EDSDPEPTPAP---P------K BOVINEH4PEP IR-DGEVKYYKTNGGLFLIWQAMKPLNLSEHT----N-YTIER---N-----N VP-NGTAQYFKTEGGMILVWQPLTAIELEEAMIEATTVSPTPLS-----T ATELINEH3PEP SAIMIRIPEP TP-NGTAEYYQTEGGMILVWQPLIAIELEEAMLEATTSPVTPSAP-----T EOH2PEP RP-NGTAKVYKTTGNLYIVWQPLIQIDLLDTHAKLYNLTNATASPTSTP------EOH5PEP AR-NGSVQIYKTSGNLYVVWQPLVQLDLLAAHAKTINSTDNSTSPTTAPN-----TT ALCELPEP SP-NGTAQYYLTNGGLLLVWQPLVQQKLLDAKGLLDAVKKQQNTTTT-----T TKGQEAITYFITSGGLLLAWLPLTPRSLATVKNLTELTTPTSSPPSSPSPPAPSAARGST EBVPEP HHV8PEP TTSASRRKRRSASTAAAGG---GGSTDN-----LSYTQLQFAYDKLRDGINQVLEELSRA TTSTVSRVRRSVNTNEQ------ATDN-----LAAPQLQFAYDKLRASINKVLEELSRA RHESRHADPEP MURH68PEP STRRKREAADNGNSTSEVS---KGSENP----LITAQIQFAYDKLTTSVNNVLEELSRA BOVINEH4PEP KTGNKSRQKRSVDTKTFQG-----AKG-----LSTAQVQYAYDHLRTSMNHILEELTKT AHLTSRRTGRRKRDVSAG-----SENS-----VLLAQIQYAYDKLRQSINNVLEELAIT ATELINEH3 PEP SAIMIRIPEP SSSRSKRAIRSIRDVSAG-----SENN-----VFLSQIQYAYDKLRQSINNVLEELAIT EQH2PEP -TTSPRRRRDTSSVSGGG---NNGDNSTKEESVAASQVQFAYDNLRKSINRVLGELSRA TSTSSRRKRRDTGNTATNN---SSSNNSSMEENLATSQVQFAYDQLRKSINRVLEQLSRV EQH5PEP ALCELPEP TTTRSRRQRRSVSSGIDDV---YTAEST----ILLTQIQFAYDTLRAQINNVLEELSRA ${\tt PAAVLRRRRDAGNATTPVPPTAPGKSLGTLNNPATV} \underline{{\tt QIQFAYDSL}} {\tt RRQINRMLGDLARA}$ **EBVPEP** HHV8PEP WCREQVRDNLMWYELSKINPTSVMTAIYGRPVSAKFVGDAISVTECINVDQSSVNIHKSL RHESRHADPEP WCREQVRDTYMWYELSKINPTSVMTAIYGRPVSAKFVGDAISVTDCVAVDQASVSIHKSL MURHERPEP wcreqvrdtlmwyelskvnptsvmsaiygkpvaaryvgdaisvtdciyvdqssvnihqsl BOVINEH4PEP WCREQKKDNLMWYELSKINPVSVMAAIYGKPVAVKAMGDAFMVSECINVDQASVNIHKSM ATELINEH3 PEP WCREQVRQTMIWYEIAKINPTSVMTAIYGKPVSAKALGDVISVTECINVDQTSVSIHKSL SAIMIRIPEP WCREQVRQTMVWYEIAKINPTSVMTAIYGKPVSRKALGDVISVTECINVDQSSVSIHKSL EOH2PEP WCREQYRASLMWYELSKINPTSVMSAIYGRPVSAKLIGDVVSVSDCISVDOKSVFVHKNM EOH5 PRP WCQNQYRASLMWYELSKINPTSVMSAIYGRPVSAKLVGDVVQISDCITVDQESVFVHRNL ALCELPEP WCREQHRASLMWNELSKINPTSVMSSIYGRPVSAKRIGDVISVSHCVVVDQDSVSLHRSM

WCLEQKRQNMVLRELTKINPTTVMSSIYGKAVAAKRLGDVISVSQCVPVNQATVTLRKSM

Figure 1(c)

HHV8PEP RHESRHADPEP MURH68PEP BOVINEH4 PEP ATELINEH3PEP SAIMIRIPEP EOH2 PEP EQH5PEP. ALCELPEP EBVPEP

HHV8PEP RHESRHADPEP MURH68PEP **BOVINEH4PEP** ATELINEH3PEP SAIMIRIPEP EQH2PEP EQH5PEP ALCELPEP EBVPEP

HHV8PEP RHESRHADPEP MURH68PEP BOVINEH4PEP ATELINEH3PEP SAIMIRIPEP EOH2PEP EQH5PEP ALCELPEP **EBVPEP**

HHV8PEP RHESRHADPEP MURH68PEP BOVINEH4 PEP ATELINEH3 PEP SAIMIRIPEP EOH2 PEP EOH5 PEP ALCELPEP EBVPEP

HHV8PEP RHESRHADPEP MURH68PEP BOVINEH4 PEP ATELINEH3 PEP SAIMIRIPEP EQH2PEP EQH5PEP ALCELPEP EBVPEP

RTN---SKDVCYARPLVTFKFLNSSNLFTGQLGARNEIILTNNOVETCKDTCEHYFITRN RTS---TPGMCYSRPPVTFRFLNSTTLFKGQLGPRNEIILTDNQVEACKETCEHYFIASN RLQH--DKTTCYSRPRVTFKFINSTDPLTGQLGPRKEIILSNTNIETCKDESEHYFIVGE RTD---DPKVCYSRPLVTFKFVNSTATFRGQLGTRNEILLTNTHVETCRPTADHYFFVKN KTT---MNDVCYSRPPVTFKFVNSSQLFKGQLGARNEILLSESLVENCHQNAEHFFTAKN KTE---NNDICYSRPPVTFKFVNSSQLFKGQLGARNEILLSESLVENCHQNAETFFTAKN KVPG--KEDLCYTRPVVGFKFINGSELFAGQLGPRNEIVLSTSQVEVCQHSCEHYFQAGN RVPG--SKDLCYTRPVVGFKFINGSELFVGQLGARNEILLSTNLVEVCQHSCEHYFQGGN RVPGRDKTHECYSRPPVTFKFINDSHLYKGQLGVNNEILLTTTAVEICHENTEHYFOGGN RVPG--SETMCYSRPLVSFSFINDTKTYEGQLGTDNEIFLTKKMTEVCQATSQYYFQSGN

ETLVYKDYAYLKTINTTDISTLNTFIALNLSFIQNIDFKAIELYSSAEKRLASSVFDLET VTYYYKDYVFVKKINTSEISTLGTFIALNLSFIENIDFRVIELYSRAEKKLSGSV**FDIET** YIYYYKNYIFEEKLNLSSIATLDTFIALNISFIENIDFKTVELYSSTERKLASSVFDIES MTHYFKDYKFVKTMDTNNISTLDTFLTLNLTFIDNIDFKTVELYSETERKMAS-ALDLET ETYHFKNYLHVETLPLTNISTLDTFLALNLTFIENIDFKAVELYSSGERKLAN-VFDLET ETYHFKNYVHVETLPVNNISTLDTFLALNLTFIENIDFKAVELYSSGERKLAN-VFDLET QMYKYKDYYYVSTLNLTDIPTLHTMITLNLSLVENIDFKVIELYSKTEKRLSN-VFDIET HIYKYKNYEYVSTMNLTDVPTLHTMITLNLSLVENVDFQVIQLYSQKEKKLSN-VFDIET NMYFYKNYRHVKTMPVGDVATLDTFMVLNLTLVENIDFQVIELYSREEKRMST-AFDIET EIHVYNDYHHFKTIELDGIATLQTFISLNTSLIENIDFASLELYSRDEQRASN-VFDLEG

MFREYNYYTHRLAGLREDLDNTIDMNKERFVRDLSEIVADLGGIGKTVVNVASSVVTLCG MFREYNYYTQRLAGLREDLDNTIDLNRDRLARDLSEIVADLGDVGRTVVNVASSVITLFG MFREYNYYTYSLAGIKKDLDNTIDYNRDRLVQDLSDMMADLGDIGRSVVNVVSSVVTFFS MFREYNYYTQKLASLREDLDNTIDLNRDRLVKDLSEMMADLGDIGKVVVNTFSGIVTVFG MFREYNYYAQSISGLRKDFDNSQRNNRDRIIQDFSEILADLGSIGKVIVNIASSAFSLFG MFREYNYYAQSISGLRKDFDNSQRNNRDRIIQDFSEILADLGSIGKVIVNVASGAFSLFG MFREYNYYTQNLNGLRKDLDDSIDHGRDSFIQTLGDIMQDLGTIGKVVVNVASGVFSLFG MFREYNYYTQNLKGLRKDLDDSIHDGRDSFIQFLGDLVQDLVPVGDVIVNVASGVFSLFG MFREYNYYTQRVTGLRRDLTD-LATNRNQFVDAFGSLMDDLGVVGKTVLNAVSSVATLFS **IFREYNFQ**AQNIAGLRKDLDNAVSNGRNQFVDGLGELMDSLGSVGQSITNLVSTVGGLFS

SLVTGFINFIKHPLGGMLMIIIVIAIILIIFMLSRRTNTIAQAPVKMIYP----DVDRRA SIVSGFINFIKSPFGGMLMILVIVAVVLIVFALNRRTNAIAQAPIRMIYP----DIDKMO SIVTGFIKFFTNPLGGIFILLIIGGIIFLVVVLNRRNSQFHDAPIKMLYPSVENYAARQA SIVGGFVSFFTNPIGGVTIILLLIVVVFVVFIVSRRTNNMNEAPIKMIYP----NIDKAS GIVTGILNFIKNPLGGMLTFLLVGAIIILVILLVRRTNNMSQAPIRMIYP----DIEKSR GIVTGILNFIKNPLGGMFTFLLIGAVIILVILLVRRTNNMSQAPIRMIYP----DVEKSK SIVSGVISFFKNPFGGMLLIVLIIAGVVVVYLFMTRSRSIYSAPIRMLYP----GVERAA SIVSGVISFLKNPLGAILTIALIVGGIIVLYLFITRSRTVYQAPIRMLYP----EVDRAP SIVSGIINFIKNPFGGMLLFGLIAAVVITVILLNRKAKRFAQNPVQMIYP----DIKTIT ${\tt SLVSGFISFKNPFGGMLILVLVAGVVILVISLTRRTRQMSQQPVQMLYP----GIDELA}$

PP-----SGGAPTREEIKNILLGMHQLQQ----ERQKADDLKKSTPSVFQRTANGLR P-----SGGKVDQEQIKNILAGMHQLQQ----EERRRLDEQQRSAPSLFRRASDGLK PPPYSA---SPPAIDKEEIKRILLGMHQVHQ----EEKEAQKQLTNSGPTLWQKATGFLR EQE-----SEHGKSEEEASHKPGLFQLLGDGLQ S-----SVTPTEPEVIKQILLGMHNMQQ----EEYKKREEHKASQPSFLKRATDAFL ${\tt S------TVTPMEPETIKQILLGMHNMQQ----EAYKKKEEQRAARPSIFRQAAETFL}$ QEP----GAHPVSEDQIRNILMGMHQFQQRQRAEEEARREEEVKGKRTLFEVIRDSAT QQ-----NVQPIPEDQVRSILLAMHQFQQQQQQQQQQQQEEHTQ-RRSIFDTIRESTS SQREEL---QVDPISKHELDRIMLAMHDYHASK--QPESKQDEEQGSTTSGPADWLNKAK $\verb"QQHASGEGPGINPISKTELQAIMLALHEQNQ-----EQKRAAQRAAGPSVASRALQAAR"$

| ATGGCAGGTA | GCTTAAAACT | TAGGGGATCT | GTTCTAGCAC | TGTGGTACCT | GTATCAGGTG | 60 |
|------------|------------|--------------------|--------------|------------|------------|------|
| GCTCTTTATT | CACTTAGTAT | AGCAGAGACC | GGTGTAACCT | CACCTCCAAA | TACAGCGACC | 120 |
| TGGTCTACTG | AATCGCCGCT | AACAGGTCAC | TATGGAACAC | ACGATTCAAG | CCATGGTGAA | 180 |
| AGAGGAAACA | ACGAAAACAG | AGATTCAGAA | GAGCAAAATA | AAAACATTTA | TGGATCGCCT | 240 |
| TCTACGTTTC | CTTACAGAGT | ATGCAGTGCC | TCCGGAGTTG | GAGATGTCTT | TAGATTTCAG | 300 |
| ACCGACCATG | TGTGTCCCGA | TGCCAGTGAT | ATGGTACACA | GTGAGGGGAT | TCTACTAATT | 360 |
| TACAAACAGA | ACATTATTCC | ATTTATGTTT | AGAGTTAGGA | AATATAGAAA | AGTTGTTACA | 420 |
| ACAAGTACTG | TCTACAATGG | TATTTATTCT | GACTCTATTA | CCAACCAACA | TACTTTCTAT | 480 |
| AAATCAATCG | AACCTTGGGA | GACAGAAAAG | ATGGACACAA | TATATCAGTG | TTTTAATTCT | 540 |
| TTAAGACTAA | ACACAGGTGG | AAATCTGCTT | ACTTATGTAG | ATAGAGATGA | TATAAATATG | 600 |
| ACAGTGTTTC | TGCAACCTGT | TGACGGTGTG | ACGCCCGATG | TGAAGAGGTA | TGGCAGTCAA | 660 |
| CCAGAGCTGT | ACCTTGAACC | TGGCTGGTTT | TGGGGTAGTT | ATAGAAGACG | AACTACAGTG | 720 |
| AACTGTGAAC | TAATGGACAT | ${\tt GTTTGCAAGA}$ | TCAAATCCTC | CATTTGATTT | CTTTGTTACA | 780 |
| GCTACAGGTG | ATACGGTGGA | AATGTCTCCA | TTTTGGAGTG | GTGAAGATGA | TCATGAAAAT | 840 |
| AAGATGCACG | AGAAGCCATG | ${\tt GTTTGTTAGT}$ | GTGATAAATA | ACTACAAGGT | GGTGGACTAT | 900 |
| CAAAACAGAG | GGACTGTACC | CCTTGGAAAA | ACAAGGATAT | TTCTAGATAG | GGAAGAGTAT | 960 |
| ACATTATCTT | GGGAAAAGCA | TCTAAAAAAT | ATGTCATATT | GTCCACTAAC | ATTATGGAAA | 1020 |
| GCATTTTACA | ATGGAATCCA | GACGGAGCAT | TCAGGCTCAT | ATCATTTTGT | AGCCAATGAC | 1080 |
| ATCACAGCGT | CATTCACAAC | TAGTAAAGAA | GACATGAAAG | AGTTCAATAC | GACATATCAT | 1140 |
| TGTCTCAACG | AGGAAATAAA | GGCAGAAATA | GAGAAGAAAT | ATGCAAAAGT | AAACTCAACT | 1200 |
| | | | | | TTTAGTCTGG | 1260 |
| CAACCTCTTA | TTCAAAACAG | GCTTCTTGAT | GCTAAGAACA | AACTGAACAA | TGAGACTTAT | 1320 |
| TCCAGGAGAT | CACGACGTCA | GGCAGAATCT | ACTACTGACC | CAATGATGGA | GATGACTGGA | 1380 |
| AATGGAGCAG | GTGGAGAATA | TAGCAGTGAA | AATTCAATCA | CGGTGGCGCA | GGTGCAGTAT | 1440 |
| | | | | | AAAGGCATGG | |
| TGTCGTGAGC | AGCATAGAGC | TGCTCTGGTG | TGGAATGAGC | TCAGCAAGAT | TAATCCCACA | 1560 |
| | GCATGATTTA | | | | | 1620 |
| | | | | | AAGTCTCAGG | |
| | | | | | TAAGTTTATG | |
| | | | | | CTTAACCACA | |
| | | | | | GACAGACATG | |
| | | | | | CACCACACTA | |
| | | | | | AGTCATTGAA | |
| | | | - | | AATGTTTAGG | |
| | | | | | GGATCTAAGC | |
| | | | | | GGGTGCTGTT | |
| | | | | | AATTGTAACA | |
| | | | | | TGTTGTTATT | |
| | | | | | GACGGCACCG | |
| | | | | | ATCAGAAATA | |
| | | | | | CCATCAACAA | |
| | | | | | AACAAGGGCA | |
| | | ATCAGGATAT | TCTAATTTAA | AAAATGCTGA | ATCTGTGGAG | |
| ATGTTAAACA | CTTTATAA | | | | | 2598 |

| MAGSLKLRGS | VLALWYLYQV | ALYSLSIAET | GVTSPPNTAT | WSTESPLTGH | 50 |
|------------|------------|------------|------------|------------|-----|
| YGTHDSSHGE | RGNNENRDSE | EQNKNIYGSP | STFPYRVCSA | SGVGDVFRFQ | 100 |
| TDHVCPDASD | MVHSEGILLI | YKQNIIPFMF | RVRKYRKVVT | TSTVYNGIYS | 150 |
| DSITNQHTFY | KSIEPWETEK | MDTIYQCFNS | LRLNTGGNLL | TYVDRDDINM | 200 |
| TVFLQPVDGV | TPDVKRYGSQ | PELYLEPGWF | WGSYRRRTTV | NCELMDMFAR | 250 |
| SNPPFDFFVT | ATGDTVEMSP | FWSGEDDHEN | KMHEKPWFVS | VINNYKVVDY | 300 |
| QNRGTVPLGK | TRIFLDREEY | TLSWEKHLKN | MSYCPLTLWK | AFYNGIQTEH | 350 |
| SGSYHFVAND | ITASFTTSKE | DMKEFNTTYH | CLNEEIKAEI | EKKYAKVNST | 400 |
| HSKYGDLKYF | KTDGGLYLVW | QPLIQNRLLD | AKNKLNNETY | SRRSRRQAES | 450 |
| TTDPMMEMTG | NGAGGEYSSE | NSITVAQVQY | AYDNLRIRIN | NILEDLSKAW | 500 |
| CREQHRAALV | WNELSKINPT | SVMSMIYNRP | VSAKRIGDVI | SVSNCIVVDQ | 550 |
| TSVSLHKSLR | LLSASDEKCF | SRPPVTFKFM | NDSTIYKGQL | GVNNEILĻTT | 600 |
| TYLETCQENT | EYYFQAKTDM | YIYKNYEHLK | TVPLSSITTL | DTFIALNFTL | 650 |
| LENVDFKVIE | LYTRDEKRLS | NVFDIETMFR | EYNYYAQRVS | GLRKDLLDLS | 700 |
| TNRNQFVDAF | GSLMDDLGAV | GQTVVNAVSG | VATLFSSIVT | GFINFIKNPF | 750 |
| GGMLMIIVVI | GVLFAIYFLT | KKTKIYETAP | IKMIYPEIDK | LKEREGKSEI | 800 |
| APISEEELER | IVLAMHIHQQ | NSHMETKTRK | DPKDSILTRA | QNMLRKRSGY | 850 |
| SNLKNAESVE | MLNTL | | | | 865 |

| | pGHV-gpB DNA.txt | | | AATCT | TCGTÀTCAGA | ATAAATAACA | 25 |
|--------------------------|--|---|------------|---------------------|------------|-------------------------------------|------|
| | pGHV1 DNA.641-1300) | CGCCGCCGTC | CGGCTCCACG | | | | 688 |
| | _ | | | | T G C GA | A C | 000 |
| | | | | | , | · · · · · · · · · · · · · · · · · · | |
| | pGHV-gpB DNA.txt | TTTTGGAAGA | TTTGTCAAAG | GCATGGTGTC | GTGAGCAGCA | TAGAGCTGCT | 75 |
| | pGHV1 DNA. (641-1300) | | CTCG-CAGGG | | | | 737 |
| | · · · · · · · · · · · · · · · · · · · | | T G CA G | | G GA | | |
| | 7 (9) 1 (2) 25 (2) | , | | | | , 1001 | |
| | pGHV-gpB DNA.txt | CTGGTGTGGA | ATGAGCTCAG | CAAGATTAAT | CCCACAAGCG | TCATGAGCAT | 125 |
| | pGHV1 DNA. (641-1300) | | AGGAGAACAT | | | | 776 |
| | £ | | A GAG CA | | C CACAAG | TCA G C | |
| | | | | | | , -, - | |
| | pGHV-gpB DNA.txt | GATTTACAAT | -AGACCCGTA | TCAGC-CAAA | AGAATAG-GA | GATGTCATTT | 172 |
| | pGHV1 DNA. (641-1300) | | AAGAACGTCA | | | | 826 |
| | <u></u> | AT TAC A | | TC CCA | G T G | G CA T | 020 |
| | | • | | - | • | 0 01 1 | |
| | pGHV-gpB DNA.txt | CAGTCTCTAA | C-TGTATTG- | -TGGTAGACC | AAACCAGTGT | ርጥሮ Δጥም Δ ሮ Δም | 219 |
| | pGHV1 DNA. (641-1300) | | CACGAACCGC | | | | 876 |
| -pēr | p | | C G A G | T AGACC | | C C T CA | 0,0 |
| ere E | A STATE OF THE STATE OF | • | | 1 1101100 | 0,1 | C C I CA | |
| gyář. | pGHV-gpB DNA.txt | AAAAGTCTCA | GGCTTCTCAG | ፐ ርሮልፐርርርልጥ | GAAAAGTGCT | ጥርጥርጥልርልርር | 269 |
| elen elen | pGHV1 DNA. (641-1300) | | GACGTGATCG | | | | 922 |
| 155 | pont 2 2 min (011 1500) | A A TC C | C T G | C CG | G AAGTGC | TCTC A A | 722 |
| el E | • * · • | AAICC | 01 0 | | G AAGIGC | ICIC A A | |
| 1 | pGHV-gpB DNA.txt | TCCAGTGACA | TTTAA-GT | ተተልተርል - ልተር | ΔΟΔΟΤΔΟΤ-Δ | TTTACAAAGG | 314 |
| 3.3 | pGHV1 DNA. (641-1300) | | TGCGCAACAA | | | | 971 |
| 475 | po 21111 (011 1300) | C AGT AC | T AA | | AC G T | C AG | J/1 |
| g ^E E uden | + | 0 1101 110 | | n n 10 | 11C G 1 | C AG | |
| F | pGHV-gpB DNA.txt | GCAACTAG | GAGTCAATAA | TGAGATTCT- | CTTAAC | CDCDACA | 354 |
| | pGHV1 DNA. (641-1300) | | GAGGTGGACC | | | | 1021 |
| a≄ ₂ | point 21111 (011 1300) | G A C | GAG | TG G CT | CT AAC | C C | 1021 |
| 2 m ² | A Committee of the Comm | | 0.10 | | 01 1110 | • • | |
| a Še | pGHV-gpB DNA.txt | TAC-CTTG | AAACA-TGTC | -AGGAAA | ACACTGAGTA | ጥጥልሮ – ጥጥጥሮል | 395 |
| 1. | pGHV1 DNA. (641-1300) | | GCACACCACC | | | | 1071 |
| 100 | £ , | C C TG | ACA C | A GA A | ACAC AG | C C | 1071 |
| g. | - | | | | 110110 110 | • • | |
| s y j | pGHV-gpB DNA.txt | GGCAAAGACA | GACATGTACA | TTTACAAAAA | CTAT | GAGCATTTGA | 439 |
| 422 44 | pGHV1 DNA. (641-1300) | | CACACGGGCA | | | | 1120 |
| 100 | | GGC AC | ACA G CA | | CT AT | GAG A TG | |
| | | | | | | | |
| | pGHV-gpB DNA.txt | AGAC | TGTGCCTT | TATCT | TCGATCACCA | CACTAGATAC | 476 |
| | pGHV1 DNA. (641-1300) | | CGTGTACCCC | | | | 1170 |
| | • | AG C | TGT CC | | TCG C | CAC G AC | |
| | | | | | | | |
| | pGHV-gpB DNA.txt | ATTTATA | GCCCTTAATT | TTACACTA | TTGGAGAATG | TTGACTTTAA | 521 |
| | pGHV1 DNA. (641-1300) | | TGTCCCCCTT | | | | 1220 |
| | • | ATT TA A | C TT | TAC T | GAG G | AC A | |
| | | | | | u | | |
| | pGHV-gpB DNA.txt | AGTCATTGAA | CTTTATACCA | GGGACG | AG-AAGAGGC | TTAGTA AT | 564 |
| | pGHV1 DNA. (641-1300) | | CTACGCGCCC | | | | 1269 |
| | | CAT G | CT CC | GGG C | AG G GG | A TA A | 1209 |
| | | | | | 0 00 | | |
| | pGHV-gpB DNA.txt | GTCTTTGACA | TTGAAACAAT | G | 585 | | |
| | pGHV1 DNA. (641-1300) | | CTGGACTCGC | | | | |
| | - | C T GAC | TG A | G | | | |
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| | pGHV-gpB prot | | | المستحد المستشيرة | N | LRI | | 4 |
|----|--|---|-----------------|-------------------|----------------|--------------|--------------|-----|
| | PGHV1Prot. (491-850) | | PAAPAAARRA | RRSPGPAGTP | EPPAVNGTGH | LRITTGSARF | ARLOFTYDHT | 540 |
| | Tarakaman | | | | | LRI | | 3.0 |
| | | | | • | - | | | |
| | pGHV-gpB prot | | RINNITARD | I.SKAWCREOH | PAATAWNET.S | KTNDTSVMSM | TAMBBACARB | 52 |
| | PGHV1Prot. (491-850) | | OVERTIME CD | TAXAMORTON | ADDAL MCEWG | DINDCANATA | AT CODUCADM | 590 |
| | | | N L | | W E S | | VSA | 390 |
| | The second of th | _ | M T | AWC Q | M E S | MP V | VSA | |
| | nCINI and nact | | TODIZTORONO | TITITOMOTICI | TIPOT DI I CAC | DEVCECDDDV | WHAT OUT | 100 |
| | pGHV-gpB prot PGHV1Prot.(491-850) | | I CDV I S V SNC | TAADÕISAST | HISTIRITIONS | DERCESRPEV | TEREMNUSTI | 102 |
| | PGHV1PTOC. (491-850) | | | | | | | 637 |
| | S | | GDV S C | v v | S R | C SRP V | TF N | |
| | | | - | | | | | |
| | pGHV-gpB prot | | - | | | | | 152 |
| | PGHV1Prot. (491-850) | 1 | IEGQLGDDNE | LLISRDLIEP | CTGNHRRYFK | LGSGYVYYED | YNYVRMVEVP | 687 |
| | | | GQLG NE | L E | C N YF | Y | Y V | |
| | n taant - * | | | | | | | |
| | pGHV-gpB prot PGHV1Prot.(491-850) | | SITTLDTFIA | LNFTLLENVD | FKVIELYTRD | E | KR | 185 |
| Ē. | PGHV1Prot. (491-850) | | ETISTRVT | LNLTLLEDRE | FLPLEVYTRE | ELADTGLLDY | SEIQRRNQLH | 735 |
| == | | | T | LN TLLE | F E YTR | E | R | |
| ē | | | | | | | | |
| 3 | pGHV-gpB prot | | | | | | | 185 |
| * | PGHV1Prot. (491-850) | | ALKFYDIDRV | VKVDHNVVLL | RGIANFFOGL | GDVGAAVGKV | VLGATGAVIS | 785 |
| i | 72. | | | | | | | |
| è | | | | | | | | |
| Ę | pGHV-gpB prot | | T.S | NVF | | | | 190 |
| - | PGHV1Prot.(491-850) | | | | | T.AVPHTCDT.P | DMDMWAT.VDW | 835 |
| i | 1011711100. (491 090) | | | N F | D. DUODANA | IMITATIONIA | KATHIOALITEA | 033 |
| 5 | • | | 113 | 14 E | | | | |
| * | nCHN-mp prot | | DT | E _ TM | 195 | | | |
| | pGHV-gpB prot PGHV1Prot.(491-850) | | TTKTLKEDGV | | 850 | | | |
| | FGHV1F106. (491-850) | | IIKIDKEDGA | DEGDA | 050 | | | |
| | | | | | | | | |

| | pGHV-gpB DNA.txt | | | | | | |
|-------------|---|--|--|----------------------------|---|------------|------------|
| | pGHV2 DNA.txt | | GATAGCCAAT | | | | 50 |
| | | | | | | | |
| | • • | | | | | | |
| | pGHV-gpB DNA.txt | | | | | AATCT | 5 |
| | pGHV2 DNA.txt | GACGAGGACG | TGACGGGGAT | CGACGAGAAA | GATATTCTGA | CGGTGCATGT | 100 |
| | | | | | | AT T | |
| | | | | | | | |
| | pGHV-gpB DNA.txt | TCGTATCAGA | ATA-AAT-AA | CATTTTGGAA | GATTTGTCAA | AGGCATGGTG | 53 |
| | pGHV2 DNA.txt | | ATACCGTGTA | | | | 146 |
| | | A AGA | ATA T A | CA TT G | A G CA | G CA GG G | |
| | nCUIL and DNA tast | ma amasaas | GG3 M3 G3 GGM | aamamaamam | ~~~~~ | | |
| | pGHV-gpB DNA.txt | TC-GTGAGCA | GCATAGAGCT | GCTCTGGTGT | GGAATGAGCT | CAGCAAGATT | 102 |
| | pGHV2 DNA.txt | | GCACGCT | | | | 188 |
| | | TC T C | GCA GCT | GCT GT T | G ATG GCT | CAG AAGA | * |
| | pGHV-gpB DNA.txt | 7 7 TCCC 7 C 7 7 | CCC TCATCA | CCAMCAMMMA | GNAM AGAGG | | |
| ž 2 | pGHV2 DNA.txt | | GCG-TCATGA | | | | 149 |
| per tita | ponva bir.cxt | | GTGAAGGCGC G G G | | | | 234 |
| 77 | | AA AA | 3 3 | GCAIGA | C I AG C | C IAI T | |
| mit. | pGHV-gpB DNA.txt | СВВВВСВВТВ | GGAGATGTCA | ምምምር አረምረ ምረ | ጥ አ አ ረ ጥረጥ አ ጥጥ | CTCCTACAC | 100 |
| 145 145 | pGHV2 DNA.txt | | ACTTGACA | | | | 199 |
| d i | po 21 31 | | A TG CA | | T C T | GGT GAC | 2,74 |
| , T | | 0 0 AI | A 10 CA | CAG C | 1 0 1 | GGI GAC | |
| 13 | pGHV-gpB DNA.txt | AAACCAGTGT | CTCATTACAT | AAAAGTCTCA | GGCTTCTCAG | TGCATCGGAT | . 249 |
| dat Sein | pGHV2 DNA.txt | | GTT-TTAC | | | | 314 |
| ai ÷ | | CA TG | T TTAC | | G CG | | 311 |
| | | | | | | | |
| | pGHV-gpB DNA.txt | GAAAAGTGCT | TCTCTAGACC | TCCAGTGACA | TTTAAGTTTA | TGAATGACAG | 299 |
| - | pGHV2 DNA.txt | CTGCTGC-CG | TGTCTCCC | TCTAGCGGCG | TCCATCA | CCAGC-ATAG | 357 |
| no. | | G C | T TCT CC | TC AG G C | T A T A | A A AG | |
| ą Č: | | | | | | | |
| 11 | pGHV-gpB DNA.txt | | AAAGGGCAAC | | | | 349 |
| 187 | pGHV2 DNA.txt | | ATGCT | TAGGCA- | -GACGAG-TG | ACTTTATCAA | 394 |
| j. | | C AC | A GC | TAGG CA | A GAG T | TTA C A | |
| 122 | | | | | | | |
| 13 | pGHV-gpB DNA.txt | | TGAAACATGT | | | | 399 |
| i de F | pGHV2 DNA.txt | | TTCGT | | | | 420 |
| | | CAA T CCT | T GT | C GA AA A | C | | |
| | TOTAL TO DAIN ALLE | | | | | | |
| | pGHV-gpB DNA.txt pGHV2 DNA.txt | | TGTACATTTA | | | | 449 |
| | pGHV2 DNA.CXC | | | | | | 420 |
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| | pGHV-gpB DNA.txt | THE PROPERTY OF THE PROPERTY O | A COA COA COA COA COA COA COA COA COA CO | ma@ama@amm | #3 #3 # # # # # # # # # # # # # # # # # | *** | |
| | pGHV2 DNA.txt | | ATCACCACAC | | | | 499 |
| | politz bim. cae | | | | | | 420 |
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| | pGHV-qpB DNA.txt | ТАТТССАСАА | TGTTGACTTT | ል [*] ል እርጥር እጥጥር | አለርጥጥጥአመካር | CACCCACCAC | E 4 0 |
| | pGHV2 DNA.txt | | IGIIGACIII | | | | 549 420 |
| | | | | | | | 420 |
| | | | | | | | |
| | pGHV-gpB DNA.txt | AAGAGGCTTA | GTAATGTCTT | TGACATTGAA | ACAATG | 585 | |
| | pGHV2 DNA.txt | | | | | 420 | |
| | the second control of | | • | | | | |

| рым-дры ргог | | | | | | |
|----------------|-------------|-------------|----------------|----------------|---------------------------------------|--------|
| pGHV2 prot.txt | | | | | | |
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| GHV-gpB prot | | | | | | |
| pGHV2 prot.txt | KDILT | VHVNK | TV | | YRFVRSS | 45 |
| | K D | v v | V | / | F S | |
| | | | 5 m/s (1) | * | | |
| GHV-gpB prot | TIYKG | OL GV-NNBIL | LT" TTYLETCQEN | TEYYFQAKTD | MYI YKN- · | 142 |
| pGHV2 prot.txt | VRESILGT | LL SRWLRKR | KEV KARMKRCEDI | MLALILDKQQ | LALKVTCNAF | 95 |
| | I | In the | C | K | | |
| GHV-gpB prot | VIIII VIIII | I COTTON D | MG TAINGUIT 13 | 30700000000 | mpp | 105 |
| | | | | | | |
| GHV2 prot.txt | | | | | | 145 |
| | Y V | L | L | DF L | R EK | |
| | | | | | | |
| GHV-qpB prot | I.CN | V-FDT ETM | r- 195 | | | |
| | | | | | | |
| GHV2 prot.txt | | | 159 | | | |
| | LS | F D | | | | |

| | рGHV-дрВ AF118399 | | AATCTTCGTA | TCAGAATAAA | TAACATTTTG | GAAGATTTGT | CAAAGGCATG | 50 |
|--|----------------------|---------|------------|------------|--------------------------------------|------------|------------|--------------------|
| | pGHV-gpB AF118399 | | GTGTCGTGAG | CAGCATAGAG | CTGCTCTGGT | GTGGAATGAG | CTCAGCAAGA | 100 |
| | pGHV-gpB AF118399 | | TTAATCCCAC | AAGCGTCATG | AGCATGATTT | ACAATAGACC | CGTATCAGCC | 150 |
| | pGHV-gpB AF118399 | | AAAAGAATAG | GAGATGTCAT | TTCAGTCTCT | AACTGTATTG | TGGTAGACCA | 200 |
| | pGHV-gpB AF118399 | | AACCAGTGTC | TCATTACATA | AAAGTCTCAG | GCTTCTCAGT | GCATCGGATG | 250 |
| | pGHV-gpB AF118399 | | | | CCAGTGACAT | | | 300 14 |
| State of the state | pGHV-gpB AF118399 | DNA.txt | -CTACCC-TA | | AGGA-GTCAA AAGACCTGCA A GA T A | TAAATATCCT | | 349 62 |
| THE THE REAL | pGHV-gpB AF118399 | | | | CAGGAAAACA | | | 399 83 |
| | pGHV-gpB AF118399 | | | | CAAAAACTAT | | | 449 95 |
| 10 m | pGHV-gpB AF118399 | | | | TAGATACATT | | | 499 99 |
| H April Bay Min | pGHV-gpB AF118399 | DNA.txt | | | AAAG GTAAAAAAAC AAA | ACATATCAGA | | 53 4 139 |
| | pGHV-gpB AF118399 | | | | GGGACG GCTGGCTAAG G GG A G | AGAAAAATGA | | 555 189 |
| | pGHV-gpB AF118399 | | | TGTGCTGACC | GACA-TTGA- CAAAGCTCAG A A T A | | | 585 238 |
| | pGHV-gpB AF118399 | | CAGCTTGCAA | | ATGCAATGCT | | | 585 288 |
| | pGHV-gpB AF118399 | | TGCATCTGGT | ATGCTGCCCT | GTCTCAAGAT | TGCAGAGACC | ATAACTATGC | 585 338 |
| | pGHV-gpB AF118399 | DNA.txt | AAGGAAGGC | | AAGACAAAAG | | | 585 388 |
| | pGHV-gpB AF118399 | DNA.txt | | | CTGTAAGGTT | | CTCAGTCACC | 585 438 |
| | pGHV-gpB AF118399 | | | GATAAACCCT | | 585 466 | | |

| | pGHV-gpB AF118401 | | GAGGACCTGC | ATAAGTA | TCC | ICAATTAAAG | GAGGATGATT | ATGAAACATT | 50 |
|-------|----------------------|----------------|------------|---------|--------|------------|---------------------------------------|------------|------------|
| | pGHV-gpB AF118401 | | | | | | AATCTTC AAAAAAACAC AA C | | 17 100 |
| | pGHV-gpB AF118401 | | | TT | | | ATGGTGTCGT | | 67 105 |
| | pGHV-gpB AF118401 | | | G | | | AGATTAATCC -GCT G C | | 117 125 |
| | pGHV-gpB AF118401 | | | | | | GCCAAAAGAA GCCAAGAGAA | | 158 152 |
| | pGHV-gpB AF118401 | | | | GTG (| | GCTCAGGACA CA | | 172 202 |
| | pGHV-gpB AF118401 | | | TGCAATT | | GTGACATGCA | TTG-TG-GTA ATGCTGTGTA TG TG GTA | TGGATTCACT | 200 252 |
| | pGHV-gpB AF118401 | DNA DNA.txt | | CTGGTAT | | GCCATGTCTC | A AAGATTGCAG A | | 217 302 |
| | pGHV-gpB AF118401 | | | | | TGGAAAAGAC | AAAAGT~-CT AAAAGTATTT AAAAGT T | | 235 352 |
| | pGHV-gpB AF118401 | | TGAGTCATGA | AGATCTC | CGT | | -GCTTCTC AGGTTGGCTC G TT CTC | | 273 401 |
| i jai | pGHV-gpB AF118401 | | | AAC | :G ' | | ATTTACAAAG -TTT TTT | | 323 417 |
| | pGHV-gpB AF118401 | | | | | | ATACCTTGAA | | 373 423 |
| | pGHV-gpB AF118401 | | AAAACACTGA | GTATTAC | CTTT (| CAGGCAAAGA | CAGACATGTA | CATTTACAAA | 423 423 |
| | pGHV-gpB AF118401 | | AACTATGAGC | ATTTGAA | AGAC ' | TGTGCCTTTA | TCTTCGATCA | CCACACTAGA | 473 423 |
| | pGHV-gpB AF118401 | DNA.txt | TACATTTATA | | | | GGAGAATGTT | GACTTTAAAG | 523 423 |
| | pGHV-gpB AF118401 | | TCATTGAACT | | | GACGAGAAGA | GGCTTAGTAA | TGTCTTTGAC | 573 423 |
| | pGHV-gpB AF118401 | DNA.txt | ATTGAAACAA | | | | | | |

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Query:
             1970
                  aagtcattgaactttataccagggacgagaagaggcttagtaatgtctttgacattgaaa 2029
                  Sbjct:
             18669 aagtaatagaactatactctagagaagagaagaggatgagcactgcatttgatatagaga 18728
             2030 caatgtttagggaatataactactatgctcagagggtcagtggcctcagaaaggatttgc 2089
  Query:
                  Sbjct:
             18729 ccatgtttagagaatacaactactacacagagggtcactggcctgcggagggacttga 18788
  Query:
                 tggatctaagcaccaatagaaatcaatttgtggatgcatttggtagtcttatggatgatt 2149
                         Sbjct:
             18789 cagacctagctacaaacagaaatcaatttgtagatgcctttggcagcctcatggacgact 18848
  Query:
                 tgggtgctgttgggcagacagttgtaaatgctgtaagtggtgtggctacgctgtttagct 2209
                  18849 tgggggtcgtggggaaaacggtgttgaatgctgtgagcagtgtggccacactcttcagct 18908
  Sbjct:
  Query:
                 caattgtaacaggatttattaatttcattaaaaacccatttggtggaatgtt 2261
                  Sbjct:
             18909 ctatagtctcagggatcatcaatttcattaaaaacccctttggggggaatgtt 18960
Score = 91.1 bits (47), Expect = 7e-16
  Identities = 117/152 (76%), Positives = 117/152 (76%)
  Query:
                 tggtgtcgtgagcagcatagagctgctctggtgtggaatgagctcagcaagattaatccc 1557
                  Sbjct:
             18194 tggtgccgtgagcagcaccgagcctctctcatgtggaacgagctaagcaaaatcaaccct 18253
₽ Query:
                 acaagcgtcatgagcatgatttacaatagacccgtatcagccaaaagaataggagatgtc 1617
                  Sbjct:
             18254 accagtgtgatgagctctatatacgggcggccagtatctgccaaaagaattggagatgtg 18313
Query:
                 atttcagtctctaactgtattgtggtagacca 1649
                  18314 atatctgtctctcactgtgtggtggtggacca 18345
  Sbjct:
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Figure 11(a)

gi 2337975 (AF005370) glycoprotein B [Alcelaphine herpesvirus 1] Length = 854Score = 953 bits (2437), Expect = 0.0 Identities = 463/804 (57%), Positives = 589/804 (72%), Gaps = 26/804 (3%) Query: 74 KNIYGSPSTFPYRVCSASGVGDVFRFQTDHVCPDASDMVHSEGILLIYKQNIIPFMFRVR 133 K I+ PS FP+RVCSAS +GD+FRFQT H CP+ D H+EGILLI+K+NI+P++F+VR Sbjct: 55 KGIHSDPSAFPFRVCSASNIGDIFRFQTSHSCPNTKDKEHNEGILLIFKENIVPYVFKVR 114 Query: 134 KYRKVVTTSTVYNGIYSDSITNQHTFYKSIEPWETEKMDTIYQCFNSLRLNTGGNLLTYV 193 KYRK+VTTST+YNGIY+D++TNQH F KS+ +ET +MDTIYQC+NSL + GGNLL Y Sbjct: 115 KYRKIVTTSTIYNGIYADAVTNQHVFSKSVPIYETRRMDTIYQCYNSLDVTVGGNLLVYT 174 Query: 194 DRDDINMTVFLQPVDGVTPDVKRYGSQPELYLEPGWFWGSYRRRTTVNCELMDMFARSNP 253 D D NMTV LQPVDG++ V+RY SQPE++ EPGW G YRRRTTVNCE+ + AR+ P Sbjct: 175 DNDGSNMTVDLQPVDGLSNSVRRYHSQPEIHAEPGWLLGGYRRRTTVNCEVTETDARAVP 234 Query: 254 PFDFFVTATGDTVEMSPFWSGEDDHENKMHEKPWFVSVINNYKVVDYQNRGTVPLGKTRI 313 PF +F+T GDT+EMSPFWS + E ++V +Y+VVDY+ RGT P G TRI Sbjct: 235 PFRYFITNIGDTIEMSPFWSKAWNETEFSGEPDRTLTVAKDYRVVDYKFRGTQPQGHTRI 294 Query: 314 FLDREEYTLSWEKHLKNMSYCPLTLWKAFYNGIQTEHSGSYHFVANDITASFTTSKEDMK 373 F+D+EEYTLSW + +N+SYC WK+F N I+TEH S HFVANDITASF T Sbjct: 295 FVDKEEYTLSWAQQFRNISYCRWAHWKSFDNAIKTEHGKSLHFVANDITASFYTPNTQTR 354 + CLN VN THS G +Y+ T+GGL LVWQPL+Q +LLDAK Sbjct: 355 EVLGKHVCLNNTIESELKSRLAKVNDTHSPNGTAQYYLTNGGLLLVWQPLVQQKLLDAKG 414 Query: 434 KLN-----NETYSRRSRRQAESTTDPMMEMTGNGAGGEYSSENSITVAQVQYAYDN 484 T + RSRRQ S + +G Y++E++I + Q+Q+AYDSbjct: 415 LLDAVKKQQNTTTTTTTTRSRRQRRSVS-----SGIDDVYTAESTILLTQIQFAYDT 466 Query: 485 LRIRINNILEDLSKAWCREQHRAALVWNELSKINPTSVMSMIYNRPVSAKRIGDVISVSN 544 LR +INN+LE+LS+AWCREQHRA+L+WNELSKINPTSVMS IY RPVSAKRIGDVISVS+ Sbjct: 467 LRAQINNVLEELSRAWCREQHRASLMWNELSKINPTSVMSSIYGRPVSAKRIGDVISVSH 526 Query: 545 CIVVDQTSVSLHKSLRLLSA-SDEKCFSRPPVTFKFMNDSTIYKGQLGVNNEILLTTTYL 603 C+VVDQ SVSLH+S+R+ +C+SRPPVTFKF+NDS +YKGQLGVNNEILLTTT + Sbjct: 527 CVVVDQDSVSLHRSMRVPGRDKTHECYSRPPVTFKFINDSHLYKGQLGVNNEILLTTTAV 586 Query: 604 ETCQENTEYYFQAKTDMYIYKNYEHLKTVPLSSITTLDTFIALNFTLLENVDFKVIELYT 663 E C ENTE+YFQ +MY YKNY H+KT+P+ + TLDTF+ LN TL+EN+DF+VIELY+ Sbjct: 587 EICHENTEHYFQGGNNMYFYKNYRHVKTMPVGDVATLDTFMVLNLTLVENIDFQVIELYS 646 Query: 664 RDEKRLSNVFDIETMFREYNYYAQRVSGLRKDLLDLSTNRNQFVDAFGSLMDDLGAVGQT 723 R+EKR+S FDIETMFREYNYY QRV+GLR+DL DL+TNRNQFVDAFGSLMDDLG VG+T Sbjct: 647 REEKRMSTAFDIETMFREYNYYTQRVTGLRRDLTDLATNRNQFVDAFGSLMDDLGVVGKT 706

Figure 11(b)

| Query: | 724 | VVNAVSGVATLFSSIVTGFINFIKNPFGGMLMIIVVIGVLFAIYFLTKKTKIYETAPIKM V+NAVS VATLFSSIV+G INFIKNPFGGML+ ++ V+ + L +K K + P++M | 783 |
|--------|-----|--|-----|
| Sbjct: | 707 | VLNAVSSVATLFSSIVSGIINFIKNPFGGMLLFGLIAAVVITVILLNRKAKRFAQNPVQM | 766 |
| - | | IYPEIDKLKEREGKSEIAPISEEELERIVLAMHIHQQNSHMETKTRKDPKDSI IYP+I + + ++ ++ PIS+ EL+RI+LAMH + + E+K T P D | |
| Sbjct: | 767 | IYPDIKTITSQREELQVDPISKHELDRIMLAMHDYHASKQPESKQDEEQGSTTSGPAD-W | 825 |
| Query: | 837 | LTRAQNMLRKRSGYSNLKNAESVE 860 L +A+N+LR+R+GY LK +S E | |
| Sbjct: | 826 | LNKAKNVLRRRAGYKPLKRTDSFE 849 | |